

PCT09

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RAW SEQUENCE LISTING

FATENT APPLICATION: US/09/763,994A

DATE: 12/13/2002 P.6

TIME: 10:19:0

Input Set : A:\EP.txt

Output Set: N:\CRF4\12132002\1763994A.raw

```
3 <110 APPLICANT: Edmonds, Brian T.
      5 <120 - TITLE OF INVENTION: HUMAN LATENT TRANSFORMING GROWTH FACTOR-BETA BINDING
              PROTEIN 3
      3 4130 FILE REFERENCE: X-12239
     10 <140 - CUERENT APPLICATION NUMBER: US/09/763,994A
C--> 11 <141> CURRENT FILING DATE: 2001-10-15
     13 <160. NUMBER OF SEQ ID NOS: 6
     15 <170 SOFTWARE: Patentin Ver. 2.0
     17 :210 - SEO ID NO: 1
     18 <211 - LENGTH: 3624
     19 <212 - TYPE: DNA
     20 <213 - OEGANISM: Homo sapiens
     22 <400: SEQUENCE: 1
     \mathbb{R}^3 egyptropical groupgings googetyped egogagoget towaggingst eittigegong \Theta^+
     24 gigathiga agoggaeoig toicaagggo cagigioggg acagitigica goagggoide 1.0\,

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     28 gaggataceg godgeteagg bedeaggestg ageaggahag gaggestigts babaggagang e 60
     2\pi stycingeres typistrogya gygogaetet ytygosayca aydaoyddat diacyddyto 4.00

m ?0 baggigateg etgaeceteb tgggoboggg gaggggoote etgbbbagba egbagbotte 4\cdot 0
     \mathbb{R}^{4} otggtgodda taggoddggg adagatotga goagaagtgo aggoddgod odddgtggtg \mathbb{R}^{4}\mathbb{R}
     \pm 2 aatgraphyd tecasraeco gebogaggee scagtocagg tagaacggas tgagagbtog 6.00
     \mathbb{R}3 aangesjaga gegbageebb etbheagsan bigeigeege alebbaagbe etbgeabeen mn0
     of eggeogency comagnages coefgggeege egeteteagg anabtetgee caagnageeg (.0
     \sim tytyrcaeca acusectess eggecteaec aageaggaag astystyegg tageategge ^{2+0}
     nd artgretoog gecagageaa gigenabaag tgibeccage igcagtacac aggagigeag F40
     arphi aagonagogs oligtacgigg ggaagigggo goligacigis oscagggeta caagaggoit arphi^{(0)}
     ik aanamnadoo antgonagga batbaangag tigngbaatigo ogggogtigtig tingonatiget 9+0
     39 gantidentoa anaaccetgy oficiatego tytytetyce dacetygesa taytitaggo 1/20\,
     40 bectrebata cacagigosi tabagacaaa boggaggaga agagootata tiboogoota 1 60
     41 gtgadosotg agoachagtg coagdadson stgadoaddo gudtgaddsg doagdustgd 1140
     42 tyckucaqty teggeaaggs otggggeyeg sygtyteage ystyceeaac agatygsane 1,\,00
     45 gotgeattea aggagatety depayetygy aagggatage aratteteac etpocaboay 1,60
     44 abquidacca thragggogá gagtiguetti trentittire tipoacconga ogggeracke 1 \pm 0
     45 aagononags agnittoogga gagsnotago baggotodas bacetgagga cabagaggaa 1 80
     46 gagadagogg tyaccungga otoacoggty agtyagyaya gytbagtyba ycagagocac 1440
     47 cohautgrea coapgacted typologyddo tacologago tyatotodog tobotogodd 1^\circ\,00
     48 objectation getiggitiest geographic pot cottobe geagegoogt agagninget 1:60
     49 productodyg todbagdydd tydtgagtyr bydotyddob dyddottety tygboddygd 1+20
     \pm 0 gagtigenties egggeneese tigactacted tighcaptigna accessigental hogginalist 1_{22}
     51 concagnace gotacigogt ugatulgaan gagtgogagg nagagoootg tggennyggg 1140
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52 aggggeatet geatgauear eggeggeter taraattyce artgeaaceg eggetaeege $1_{2}00$

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/763,994A

DATE: 12/13/2002 TIME: 10:13:13

Input Set : A:\EP.txt

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53 etgeaegigg gegeegggyg gegotegige gitggaeeiga aegaatgege caagesoeae 1860
64 otgtgoggog acggoggott otgoatcaac titoooggto actacaagig caacig man 1920.
-5 speggotado ggeteaaago otopoggoot congtigtigo aagadatoga ogagty logg 1980
56 gacccaaget ettgebogga tggcaaatge gagaabaage eegggagett baagtgiate 1940
.) gootgtbags ofggotabeg bagbbagggg ggbggggoot gtbgggabyt gaabgaqtgc (100)
\pm gregagages genericate gostagetya tangagasach througageth utthroughty 1100
ec{w} abolytycho ugdyctanyc ymboghycht gangybyda yttycttyga bytygabyad .220
of tytgaggety gyggacytyty tyacaatyyc atotycayca acacyccayy atotttucay (200
\pm 1 tytoaytyso tototyysta poatotytoo agyyspoyya yobactyoga yyabattyat .340
\epsilon d gagtigtigads tolletignage etigeattigigi gigtigaetigea tieaataelaaa tiggeteiltae i4.00
\delta 1 agaigistit generosayyy goatogysig yigyyiyysa yysaaigesa agabatiyat 1460
64 gagtipoagos aggaçroyaş botigtiposttı biposatgigiş bətigoaagaa bistica_{1}gigi_{2} 15.35
\phi^{\prime\prime} tootatytyt ytytotytyja tydygyttio antodbandi aggaddagda dygitytyay 15\%0
\kappa 6 gaggiggagi agosossoca caaqaaqqaq igotasoliga asttogatga cadaqtstis .640
60 tgogadagog tartggudab baadguqado bagdaggagt gotgotgoto totgggygdi (700
\delta\delta ggotygggog accaetgega aatstasses tgoesagtot abagetbagb egagttboas .7\delta\delta
64 agostotgop nagaoggisaa iggystausiso baygisbausi abatogtbia otaoggisato .1820
oxdot beagneeand gliqarathgy rigaglighatig bligtleggyn eggagastlig baaggaygge. oxdot
\pm 1 lagitacatiga lankoqualada tigadilada itadilada lagitacatiga a agolagaa obtainia . 940
_{\odot} gggasomigo figgaatignijt iggaogtigjad gaqtijootigiji abgaqtichaa otgoogjaac i0.00
 5 ggagtigtigtig agaadabijog oggoggotiad ogotigtigdet goadgobbob tigdogaqtiad > 0.66
^{\circ}4 agtomogogo agugomaştığı betgagomogi galaglaşdığı agogtigomobi giyaşmıştığı ^{\circ}120
if gaogtytgot ggagosagny oggagaggad ygbatytgog otggoddoot ggodgypot \pm 150
\sigma good-backt thmargarity objects dogs bagggeous gootsgegoes becaused a 240
 7 begingeboge egegegege gggytbedat typodegadat egbagagega gagbaattee \pm 3.00
19 thologgapa caagooobbt gotyttgogg aagoobobaa gagatgagga dagttoligag (300
^{-4} qaqqattoaq acqaqtqtog otgoqtqaqt qqooqotqoq tqooqoqqoo qqqoqqo\sim 420
*6 gigitabaagi gioboogaaga biloosaabio gaaqaatoob gaacaagata agidaasa44\%
-1 gaogagigos gagagotigaa odagogoggg otgotigtigos agagogagog otgotitaad vo40
\pm k acceptaget notinegoty ogtotycese geograficy ogegoegoty codycenggy x 600
:} goctabatta necagogoog bogo
                                                                           624ء
+5 <210× SEQ ID NO: 2
#6 <211 > LENGTH: 1203
F7 <212> TYPE: PRT
F: <2130 ORGAN!SM: Homo sapiens
→ 1 #400% SEQUENCE: A
41 Arg Gly Ala Gly Gly Gly Gly Ala Leu Ala Arg Glu Arg Phe Lys Val
                                           10
94 Val Phe Ala Pro Val Ile Cys Lys Arg Thr Cys Lou Lys Gly Gln Cys
Э÷.
                 . )
                                       2.5
97 Arg Asp Ser Cys Gln 31n Gly Ser Asn Met Thr Leu Ile Gly Glu Asn
                                  40
                                                        4.5
100 Gly His Ser Thr Asp Thr Leu Thr Gly Ser Gly Phe Arg Val Val Val
        50
                               55
103 Cys Pro Leu Pro Cys Met Ash Gly Gly Gln Cys Ser Ser Arg Ash Gln
                           70
104 Feb.
106 Cys Leu Cys Pro Pro Asp Fhe Thr Gly Arg Phe Cys Gln Val Fro Ala
                                            90
                      30
109 Gly Gly Ala Gly Gly Gly Thr Gly Gly Ser Gly Fro Gly Leu Ser Arg
```

RAW SEQUENCE LISTING

DATE: 12/13/2002 FATENT APPLICATION: US/09/763,994A TIME: 10:19:03

Input Set : A:\EP.txt

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110				100					105					1:0		
11.	Thr	Gly	Ala	Lers	Ser	Thr	Gly		Leu	Pro	Pro	Leu		Pro	Glu	зіу
11 :			115	ת ו	0	т .	m.t.	120	т1	TT1	n 1	3.7 1	125	37.1	11.	57.
110	Asp	Ser 130	Val	Ala	Ser	Lys	H18	Alc	Пе	ТУТ	Ala	140	112. D	Vall	116	ri⊥d
	A:-¢-		Pro	Glv	Pro	Ĝ] v		Glv	Pro	Pro	Ala		H.s	A.a	Ala	Phie
	1:5			***** 1		150					155					្រស់ប៉ុ
1.2:	Lett	Va.	Pro	Leq	GLY	$E^{i}\Gamma \oplus$	317	Gln	11e	Ser	Aî a	Glય	wal.	G.r.	Ala	Pro
1					16.					170					175	
	$\mathbf{p}(\mathbf{r})$	Pro	Val	Vall 186	Asr.	vā:	Arg	Vа.	His 135	Hia	P10	Pro	Li. U	A.a 1}	ser	Val
1.2 1.2	G'+	·j.::	His		Tle	1771	Ser	Se:		Ala	G : 1	Sor	Ata		Pro	Ser
1.		* 1.2.	195	:	• 04	J. J	•	200	11.571			.,	, i) E			
130	Gu m	Hi:	Leu	Let.	Pro	His	210	Lyn	P.: o	Ser	Н. З	$Pr\circ$	At g	Pro	Pro	$\operatorname{Ihr}^{\scriptscriptstyle{i}}$
1 - 1		310					215					220				
	Sur	L.J. T.	Ser	Leu	GLY		375	Phe	Gin	Aap		Liet.	i'a o	Бу∄	61r.	
	2115 Oys	12	Rev	A com	Dry	230	Dem.	(31 · z		٠ - ١٠	23/3 Lus	Slr		Alexa	CVS	17172
1		.1.3	ru≏ r	2 1 () (2.15	210004	i = '.'	الم الدال	,• (J	251	113 .1	J 1 1.	. , (.	11115.	255	7.0
	$G_n^{-1}Y$	3er	He	Gly	Thr	Ala	Trp	Gly	Gin		$\mathrm{Ly} s$	Сув	\mathbb{H} is	Lys	Сув	Pro
1.4				260					265					271		
1.4.		(1 _{.*}		Tyr	Thr	Gly	Val	Glh	โys	Pino	Ĝ Σ	Pro		Arc	Gly	4. 1
1.1	Val	, sk. , ,	275	A	123.50	Elevis.	"1 -	280	Tire	Tirro	Asset	I (5)	. F.E.	C, , , , .	Thr	II e
14.	V (1.1	-!2⊬γ -2!40	Aid	House	471	E 1 %/	295	121 1 3	1 / 1	1.3.3	mià	300	mali	K) () L	1111	4 guaranti
	Суз		Asp	Ile	Asn	31.		Ala	Meet	Pirob	Gly	Val	Cys.	Arq	Eis	Бі у
	3015					310					3∶5					:::D
	$A_{\mathbb{P}(Y)}$	Cys	Leu	Aar.		Fro	3.1 _{[y}	Ser	Туr		Сул	∵,a.l	1375	Pro		ЭЛУ
15.	H. s	Oan.	T (0.1-	a1	324 Dina	20.	Ama	The	C n	350 Cu:	2 000	ā.la	Lan	Tires	335 Pro	271
1::	7 I I I	501		340	a '	- C	231.9	1 11 4	345	○.y	2.18 (2.0	.110	· 1-	310	LIN	J G
	G.T.	Lys	Ser	Leu	Суа	Ethi	Arg	Leu	Val	Ser	Pro	Glu	∷. ∈	G.: ri	Сув	B. n
1: "			3.5.5					360					·, ⊧ . <u>□</u> ,			
	H.1 z		Leu	Thr	T.	Ard		Thr	Arg	Glr.	Leu		Oys	Cys	Ser	761
1	GTY	370	A 1 a	mer.	č.1.,	A1.	371	(*****	ra n	Arc	171.0	38(⊃≥×o	'Flr	Asri	alv	Thr
	38.3	.113	nsc	1 1-	, 117	391	171.5	ъ. у	.0 - 11	1 1 T . 3	3.95		11.1	1.775 1	.∋±.y	400
	A. á	Ala	Ph∈		Gla.		Cys	Pro	A.a	Gly	Lys	Gly	Tyr	$\mathrm{Hi}\varepsilon$	$11\mathrm{e}$	Leu
1					40.5					41					415	
	Tl.r	Ser	His		Thi	ъеъ	Thur	110		Gly	G., U	Ser	Asp		Ser	Leu
170	D) z	Len	lie	420 Pra	Δοτι	<i>a</i> 1	Dyn.	Pro	4.25	Den	C'n	Olm	.em	430 Pric	(3.1)	Sort
1	5176	шеа	435	LIC	nop	1317	; 1 %	440	±1.7°	I LU	(: I	.3111	145	1.1.0	JIIX	•,/1.1
1,	F1 (-	Ser		Ala	Pro	Pro	Pro	Glu	Asp	Thr	(El u	13 Lu		Arg	Gly	7.1
1 .		450					455					460				
	Thar	Thr	Asp	Ser	$Fr \in$		Ser	Glu	Glu	Arg		7al	Gln	Gir	Ser	
	4+5	中トン	7/1	Ti トン	Tile v	47-)	Dro	Λ1 ->	Λνν	Den	41.5 Tur	Dro	(21)	Loui	He	410
182	Pro	1111	Ald	1111	102 485	TIII	FIO	Ald	ALG	490	TYT	E1()	ta i U	neti	495	261
										1 2 12						

RAW SEQUENCE LISTING

DATE: 12/13/2002 TIME: 10:19:03 PATENT APPLICATION: US/09/763,994A

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184 185	Arg	Pro	Ser	Fro 500	Pro	Thr	Mest	Arg	Trp 505	Phe	L.eu	Pro	Asp	Leu 510	Pro	Fro
	Ser	Arq	Ser 515	Ala	Val	Glu	Lle	Ala 520	Pro	Thr	Gln	Val	Thr 525	Glu	Thr	Asp
190 191	Glu	Суя 530	Arç	Leu	Asn	Gln	Asn 535	Ie	Cys	Gly	His	G1y 540	Glu	Cys	Va:	Pro
	Gly 545	Pro	Pro	Asp	Tyr	Ser 550	Cya	Hit	Cys	Asn	Pro 555	Gly	Tyr	Arq	Ser	Ηε 56€
1 +5	Pro	Gl1.	H15	Ang	Tyr 565	Сув	Val	Asp	Val	Asn 570	Glu	СУв	Glu	A. a	Glu 575	Pre
1 (9 2(4)	Cy	G1.7	$\Pr \subseteq$	Gly 580	Arg	G. 7	lid	Суа	Met 985	ASTI	Thr	Gly	Gly	3ér 590	Tur	A: :.
20.2° 30.2°	Gys	H i : :	Cys 595	Asn.	Arg	GLZ	Tyr	Arφ 600	Leu	His	Val	Gly	Ala 605	317	GL y	Arq
.30 h .30 h	Ser	€y:- 610	Val	Asp	Leu	Airr.	G. u 515	Cya-	A.a	Lys	Pro	Hi: 62:	Denia	CAT	G. y	A: p
	G1 ; 62 '	G.7	₽ł.∈	ÇĀ∵ _ē	ř. e	As n 6.45	Phe	Pro	(; y	His	Tyr 6 af	Бу:	C335	Ass.	Cys	Tyr 640
	$\mathbb{P} \mathfrak{T} \cap$	3:7	Тут	Ar;	Leu 645	Dyta	A_{+}^{\times} a	3⊖:	Arg.	Fro 650	Pro	Va.	Сув	3.27.1	A.T.	Ι. €
	Asp	G3 1	Cyrs	Arg 665	Asp	Pro	Ser	Ser	Cys 665	Pro	$\forall \forall k$	317	Бζз	Зуя 670	G., t.	Aur.
	Бум	Pro	G1.Σ	Ser	Phe	Lys	Cys	I.e.	A.a	Суѕ	Glr.	Pro	Giy 685	Туг	A: g	Ser
	Gl::	G. ;; 690		Gi 7	A. à	Cys	Ang 695	Азр	Val	Asn	als	Су.: 70-	Ala	SLu	GİΣ	Ser
	Pro-		Ser	D. J1	зұ	Trp	Cys	Gara	Asri	Leu	Pro 718	Gly	.3er	Pho	ya, d	Cys 7::0
	Γr.:	Сул	A. a	Gir.	G17 725		A. a	Pro	Ala	Pro 730	Asp	Gly	Arg	Se:	078 735	Lera
2.35	Asp:	Va.	Asp	G		3.%	А., а	Giy	A.sp 745	Val	Сγε	Ası	Asn	G1.7 750	Ie	Cys
.2 s	Se:	Assi	T:.r		G. y	ser	Plue	Gilr. 761	Cys	G. n	Зγε	<u> </u>	Jer 163	317	Туг	Ніз
.2155. 236.	Leni	Ser 775	A: g	Asp	Arg	3⊖:	H:s 775	Sy:	u.u	Азр	I 1. 6:	Asp 78··	Gla	Суч	Æup	Phe
2 ; -	Pri 784	A	A.a	CAs	LLe	3. y 7.4	3. y	Азр	СУS	L, e	Asr. 795.	Th:	Asn	3. ,	Sor	Tyr Roji
	Ar:	Суэ	Leu	фХа	2ro 305	3. 1.	З.у	H	Arg	ьои 8.0	V a 1	3. y	ыгу	A: 9	178 815	Çys
	G1:.	Asp	I.e	Assp. 822		Сун	.še r	3.".	Asp 325			Le∗.	lys	Lesu 330		Н. 8
247 246	317	Ala	Cys 835		Asn	heu	∃!n	3.y 340		Tyr	V.1]	⊽у	Vāl 345	Cys	A.3p	Car Cl
	31 7	Fhe 850		$F \cdot \mathfrak{I}$	Thr	31 fi	A.:p		His	Gly	778	31°. 86 i		Val	3. u	G.z.
250	Pro 360		His	Lys	Lys	31u 370		Tyr	Leu	Asn	Phe 875		Asp	Phr	V-11	Phe 340
	CZ2 20 -	Asp	Ser	Val	Len		Thr	Asn	Val	Thr		Gin	Glu	Cys	Cys	

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PATENT APPLICATION: US/09/763,994A TIME: 10:19:03

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                             305
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.62 Val Tyr Ser Jer Ala Glu Phe His Jer Leu Cys Pro Asp Gl; Lys Gl;
                          921
. 63 915
                                           3. 5
.65 Fyr Thr Gln Asp Asr. Asn Ile Val Asa Tyr Gly Ile Pro Ala His Arg
                      935
.68 App I.o App Glu Cys Met Leu Phé Gly Ser Glu Ile Cys bys Slu Gly
169 945
                   950
                                    955
171 Lys Cys Vol Asn Thr 31n Pro Gly Tyr 31u Cys Tyr Cys Lys 31n 31y
                                970
                9.5
                                                 975
. 14 Phe Tyr Tyr Asp Gly Ash Leu Leu Glu Cys Val Asp Val Asp Glu Cys
1.70 98¢ 985
. 7) Leu Asp Glu Ber Asn Cys Arg Asn Gly Val Cys Glu Asn Thr Arg Gly
.75 995 1000 1005
.50 Gly Tyr Ard Cys Ala Cys Thr Pro Pro Ala Glu Tyr Ser Pro Ala Glu
. 81 101: 1015 1086
. +3 Arg G.E. Cyn Deu Sor Pro Glu Glu Met Glu Arg Ala Pro Glu Arg Arg . +4 1 (25 1)30 1)35 1)40
.86 Asp Val Cys Trp Ser Gin Arg Gly Glu Asp Gly Met Cys Ala Gly Pro
              1015 1050
Like Leu Alla Gry Pro Ala Leu Thr Phe Asp Asp Cys Cys Cys Arg Glm Gly
   1060
                          1065
                                            107
. M. Arg Gly Trp Gly Ala Glr Cys Arg Pro Cys Pro Pro Arg Gly Ala Gly
. Add 1075 1086 1085
La. Sar His Cys Pro Thr Ser Glin Ser Glu Ser Asn Ser Phe Trp Asp Thr
. M Ser Pro Leu Lou bou Gly Lys Pro Pro Ang Asp Glu Asp Ser Sox Glu
**· 1105
                                   1120
Fill Glu Asp Ser Asp G.u Cys Arg Cys Val Ser G.y Arg Cys Val Pro Arg
Fill 1135
FG4 Pro GLy G.y Ala Val Cys Glu Cys Pro Gly G.y Phe Gin Leu Asp Ala
-05 114C
                            1145
                                             1150
007 Ser Ard A:a Ard Cys Val Asp Ile Asp Glu Cys Ard Glu Leu Ash Gln
Fig. 11.0! 1160
(40) Arg G.y Leu Let Cys Lys Ser Glu Arg Cys Val Ash Thr Ser Gly Ser
                                 1180
511 117 1175
Hi Phe Ard Cys Vai Cys Lys Ala Gly Phe Ala Arg Ser Arg Fro His Gly
1190 1195
÷lé Ala Cy.: Val Pro Gin Arg Arg Arg
+17 1205
320 < 10> CEQ ID NO: 3
521 < 11> LENGTH: 3771
SEE KIIZS TYPE: DNA
-29 <113> ORGANISM: Homo sapiens
421 <400 > GEQUENCE: 3
{\mathbb A}^{2}6 cegagagagag gaaggagagagagaa agaat agaagagat teaaaggigat cittgegaag60
\pm 27 gtgatetgea ageggaeetg tetbaaggge cagtgteggg abagttgtea geagggetee 120
328 aacatqacqc teatoggaga gaacqqocac aqcacagaca egotcacqqq otocqqctto 180
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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT AFFLICATION: US/09/763,994A

DATE: 12/13/2002
TIME: 10:19:04

Input Set : A:\EP.txt

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos. 189

VARIABLE LOCATION SUMMARYDATE: 12/13/2002PATENT APPLICATION: US/09/763,994ATIME: 10:19:04

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Use of n's or Xaa's (NEW RULES): Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of $\langle 220 \rangle$ to $\langle 223 \rangle$ is MANDATORY if n's or Xaa's are present. in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:6; Xaa Fos. 189

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/763,994A

DATE: 12/13/2007 TIME: 10:19:04

Input Set : A:\EP.txt

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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:495 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:6 L:495 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:6 L:495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:176